

1973

Eleventh Annual Iowa Junior Science, Engineering Humanities Symposium

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Recommended Citation

(1973) "Eleventh Annual Iowa Junior Science, Engineering Humanities Symposium," *Iowa Science Teachers Journal*: Vol. 10 : No. 3 , Article 15.

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course will not carry credit for those who have previously taken either Biology 104 or Biology 105.

When and Where: June 11-29 in Cedar Falls with headquarters at the Science Building, University of Northern Iowa.
July 9-27 in Burlington with headquarters at the Burlington Senior High School.

Costs: Tuition for graduate students is \$105, and for undergraduate students is \$102. Books and supplies may be \$5-20 depending on what the participant already has. Some financial help may be available through local organizations. Write to the Camp director for further details.

Although many participants will be commuting and bringing their own lunches each day, room and board are available for the Cedar Falls session in the University of Northern Iowa dormitories according to the following schedule for the three weeks:

Single persons in double room with meals - \$129.00.
Single person in double room without meals - \$57.00.
Two people in double room with meals - \$114.00.
Two people in double room without meals - \$42.00.

How: For application blanks and further information write to:

Mr. Bernard L. Clausen, Director
Iowa Teachers Conservation Camp
University of Northern Iowa
Cedar Falls, Iowa 50613

TWO NEW TITLES ADDED TO LIST OF FREE TEACHING AIDS

As a part of Project ASSIST the Science Education Center at the University of Iowa is now making a number of printed teaching aids available to science teachers. They consist of short articles by the staff which outline procedures and instructional strategies that are ready for classroom use.

New Articles -

Investigating Insecticides - A classroom procedure to observe the effects of household insecticides.

Life Down Under - Directions for several activities that students can do to learn about life forms and their activity in the soil.

Other Articles available include -

A Survey of Particulate Air Pollution - Background information and a laboratory procedure for the study of particulate air pollution.

A Key to the Identification of Particulate Air Pollution Material - A simplified verbal and pictorial guide to the identification of air pollution particles.

The Investigation of Gaseous Air Pollution - Background information and laboratory procedures for the determination of particulate air pollution.

Water Pollution Tests - A detailed description of the chemical preparations and procedures required for the determination of Oxygen, Carbon Dioxide, Alkalinity, Ammonia, Salinity, Sulfides, pH and Total Suspended Solids.

Soil for Survival Part I Physical Factors - An outline of several simple tests that may be conducted to prepare a report on the physical characteristics of a soil sample.

Address requests to: Jim Murphy, Science Education Center, University of Iowa, Iowa City, Iowa 52242.

ELEVENTH ANNUAL IOWA JUNIOR SCIENCE, ENGINEERING HUMANITIES SYMPOSIUM

About 300 high school science students and forty science teachers gathered in Iowa City for the Eleventh Annual Iowa Science, Engineering and Humanities Symposium held in conjunction with the Annual Iowa Junior Academy of Science State Meeting. The three-day symposium was entitled, "Mankind, Science, and Tomorrow."

"The purpose of the symposium was to promote interest in science by high school students and provide a forum where an exchange of ideas between students and scientists exists," said Asst. Prof. William Sharp, Director of the Symposium.

Twelve students had been selected to present their research efforts during the symposium. The student researchers were competing for participation in the National Symposium to be held at West Point Academy, New York during May 9-12. Of the six selected to participate in the National Symposium, the "top" paper would present his/her research and compete for participation in the World Symposium in London, England. The twelve students selected to present their research were:

1. Kevin Baker, Spirit Lake. "The Short-Term Effect of RNA on Memory and Retention."
2. Bruce A. Luxon, Waterloo. "A Determination of the Pollution of Soil and Water from the Use of Animal Fertilizer."
3. Craig Schaefer, Bettendorf. "Schlieren Photography-A Method to Make Visible the Invisible."
4. Joe Depenbusch, Emmetsburg. "Ammonia Absorption by Plant Leaves."
5. Paul Sugg, Knoxville. "Replication of Hemangioendothelioma Cells in Culture."
6. Tim Menke, Mason City. "The Effect of Contaminated Ground Water on Shallow Wells of Cerro Gordo County."
7. Gordon Waite, Maquoketa. "Experiments in Solar Spectroscopy."
8. Albert J. Allen, Davenport. "Effects of Vitamin E on Fruitfly Reproduction and Life Span."
9. Matthew Maurer, Bellevue. "A Pattern to the Primes 1-1000."
10. Tim Dunkerton, Waterloo. "A Study of Monomolecular Layers and Light."
11. Anne Marie Herman, Sigourney. "Electron Microscopic Study of Myelinated Nerve Degeneration in Primary Cat Incisors."
12. James Shell, Council Bluffs. "The Effects of Caffeine on the Oxidation of Yeast Cells."

Keynote speakers included Dr. Willard Jacobson, Columbia University; Dr. James Taranik, University of Iowa; and Dr. Timothy O'Connell, NASA. In addition to the speakers, other activities included a presentation by Peter Lewis, Director Electronic Studios at the University of Iowa; informal rap sessions; and laboratory visits.

Here at the University of Iowa, preparations are already underway for the Twelfth Annual Symposium in 1974.

THE IOWA SCIENCE TEACHERS' JOURNAL

The IST Journal is published each October, December, February and April by the Iowa Academy of Science for its members and special subscribers. Its central theme is science teaching at all academic levels.

For subscription, circulation data, additional copies, and changes of address, contact Dr. Robert Hanson, Iowa Academy of Science, University of Northern Iowa, Cedar Falls, Iowa, 50613.

Publication: Open to all persons interested in science education; preferential consideration for Academy members. For information as to policy as well as submission of news items or general articles, contact: Robert E. Yager, Science Education Center, the University of Iowa, Iowa City, Iowa 52242. All manuscripts should be typewritten, double-spaced on one side of the paper and submitted in duplicate. They must reach the editor one month prior to publication date if they are to be considered for a given issue.

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